



SPILL SUMMARY & LIMITED SITE INVESTIGATION REPORT

SPILL LOCATION:

Brian Shepard Property
111 East Shore Road South
Grand Isle, VT 05458

Spill # 2010 – WMD – 128
44° 42' 7.38"N, 73° 17' 31.28"W

PREPARED FOR:

Mr. Tim Cropley
Vermont Department of Environmental Conservation
103 South Main Street, West Office Building
Waterbury, VT 05671-0404
(802) 241-3896

PREPARED BY:

Jeremiah Howell, Senior Environmental Scientist
Environmental Products & Services of Vermont, Inc.
273 Commerce Street
Williston, VT 05495
(802) 862-1212

July 20, 2010

Introduction

Environmental Products & Services of Vermont, Inc. (EPSVT) hereby presents this spill summary and limited site investigation report detailing response activities at the Shepard Property, located at 111 East Shore Road South, Grand Isle, Vermont (**Figure 1**). The following attachments are included to aid in your review of this report:

Figure 1	General Location Map;
Figure 2	Site Map;
Appendix A	Select Photographs;
Appendix B	Waste Disposal Documentation;
Appendix C	Scope of Work and Cost Estimate.

On March 14, 2010, EPSVT was notified of a release of kerosene fuel oil from a 275-gallon aboveground storage tank (AST) located at the Shepard property in Grand Isle, Vermont. The initial reporting of the release occurred on March 13, an unknown quantity of #2 fuel oil was noted on the adjoining surface water body and downstream of the Shepard residence. Initial response activities were performed by the Grand Isle Fire Department, whose personnel deployed absorbent products at various locations downstream of the Shepard residence. The following outlines continued response and limited site investigation efforts made at this site.

Spill Response

On March 13, 2010, the Grand Isle Fire Department (GIFD) responded to the release of an unknown quantity of #2 fuel oil to the surface water body adjoining the Shepard residence. GIFD personnel deployed absorbent boom in various downstream locations in the adjoining surface water body, beginning in the approximate location of the discharge point of a drainage structure associated with the Shepard residence. EPSVT was notified of the release on March 14. EPSVT mobilized to the site, observed the level of saturation of the absorbent products deployed by the GIFD, removed saturated absorbents and deployed further absorbent products at locations immediately downstream of the Shepard residence.

EPSVT personnel hand excavated an interception trench in the vicinity of the observed point of discharge to the surface water body. The soils removed from the interception trench were screened for the presence of volatile organic compounds (VOCs), based on the field screening, a limited quantity of impacted soils were staged in a drum on-site pending proper off-site disposal.

Free Product Collection and Limited Site Investigation

On March 13, EPSVT conducted limited site investigation activities through means of shallow test pit excavation. Test pit excavations were conducted in three on-site locations. Test pits were excavated in soils adjoining the surface water body at locations upstream and downstream of the seep point where product was initially discovered. Soils collected from test pit excavations were field screened for the presence of VOCs utilizing a properly calibrated photoionization detector (PID). Field screening of collected soils indicated total concentrations

in the upstream and downstream test pit locations at background levels (<0.1 parts per million). A third test pit was hand excavated in close proximity to the residence, in line with the fill pipes currently associated with the AST housed within the Shepard residence.

On March 15, EPSVT personnel returned to the site to assess the condition of the on-site AST and associated piping. Ambient air within the residence was screened for the presence of VOCs utilizing a properly calibrated PID. Screening of ambient air yielded PID readings ranging from 9.8 to 23 parts per million (ppm) in the vicinity of the AST. In addition, drainage piping in close proximity to the AST was accessed and screened for the presence of VOCs. Screening in this location yielded PID readings at a maximum recorded value of 52.9 ppm. The drainage piping was evaluated resulting in observation of a termination point of approximately 4 feet beyond the foundation wall.

Based on observation of initial conditions, EPSVT personnel deployed absorbent materials in the interception trench locations for the purpose of free product collection. Site checks were performed on March 16, 17, 22, 29, April 22, and May 10, 2010. During the course of the site checks, EPSVT personnel assessed absorbent materials for approximate free product collection totals, staged used absorbents pending proper off-site disposal, and deployed new absorbents for further product collection as necessary.

Observation of site conditions during the course of site checks conducted on April 22 and May 10 indicated no continued evidence of free product leaching from the original point of discovery. Utilizing the observation of current site conditions and data collected during limited site investigation activities, it was determined that product collection site checks were discontinued following the May 10 monitoring event.

Sensitive Receptor Survey

The Shepard property is located in the eastern side of Grand Isle, VT, close to Lake Champlain. The general surface topography of this portion of Grand Isle is relatively flat. The property is served by private water and a private on-site septic system. There are ten drilled wells listed in the Vermont ANR Water Supply Division Well Driller reports within a one-half mile radius of the property. The closest drilled well, which is 700 feet northwest of the spill area, is 500 feet deep and has no reported yield. There are no hazardous waste sites, no hazardous waste generators, nor any underground storage tank facilities within the survey radius. The Coopers MHP Surface Water Protection Area covers the southern third of the survey radius. There are no groundwater source protection areas within the survey radius.

There is one unnamed tributary flowing north to Lake Champlain with five associated branches flowing through the survey radius. There are eight Class II wetlands that fall entirely within the bound of the survey radius or intersect the survey radius boundary ranging in size between 0.59 and 15.68 acres. There one small pond 0.001 acres in size in the eastern portion of the survey radius. Lake Champlain intersects the eastern boundary of the survey radius. Data from the Vermont Geological Survey indicates that bedrock, which was not encountered during site work, consists of interbedded calcareous black shale and coarsely granular limestone of the Stoney Point, Glens Falls and Cumberland Heads formations. Surficial material the area consists

predominately of glacial till with some swampy peat associated with a wetland on Lake Champlain. Based on observed site conditions, sensitive environmental receptors affected by the release are the surface water adjacent to and downgradient of the spill release area and the groundwater and soil immediately adjacent to the spill release area.

Conclusions and Recommendations

Based on the collected and assimilated data, the following conclusions are drawn:

- An unknown quantity of #2 fuel oil was released to the environment in proximity to the Shepard residence.
- Free product was collected in limited quantities through use of absorbent products
- A limited quantity of impacted soil was removed for proper off-site disposal, leaving a limited amount of impacted soil in place immediately adjacent to and inaccessible due to the adjoining surface water body.
- Site observation now yields no visible evidence of continued petroleum impact to the adjoining surface water

Based on these conclusions and VTDEC advisement, EPSVT makes the following recommendations:

TASK 1: Site Restoration

EPSVT will provide clean fill material from an off-site source to backfill the interception trench located near the surface water at the Shepard residence. As this area was previously inhabited by natural vegetation, no re-seeding or mulching efforts will be required. The one drum of waste generated during site check activities which remains on-site will be transported for proper off-site disposal

TASK 2: Site Update Report

EPSVT will generate and submit a brief Site Update Report detailing the final site activities associated with this release.

A cost estimate to perform these tasks has been included as Appendix C. If you have any questions regarding this report or require more information, please do not hesitate to call me at (802) 862-1212 or email me at jhowell@epssofvermont.com.

Sincerely,
ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.
Burlington Division

Jeremiah Howell,
Senior Environmental Scientist

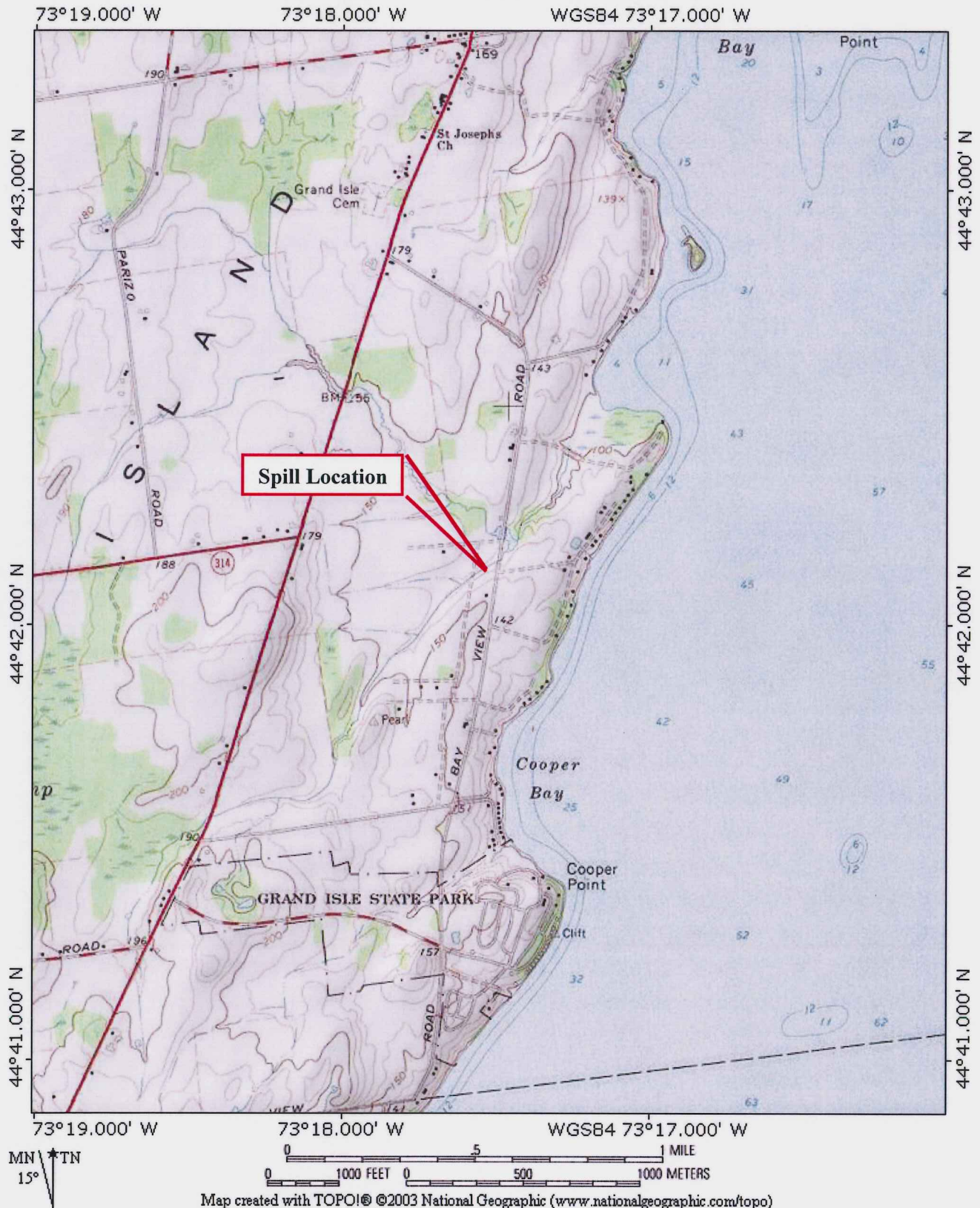
Cc: Mr. Brian Shepard (Property Owner)



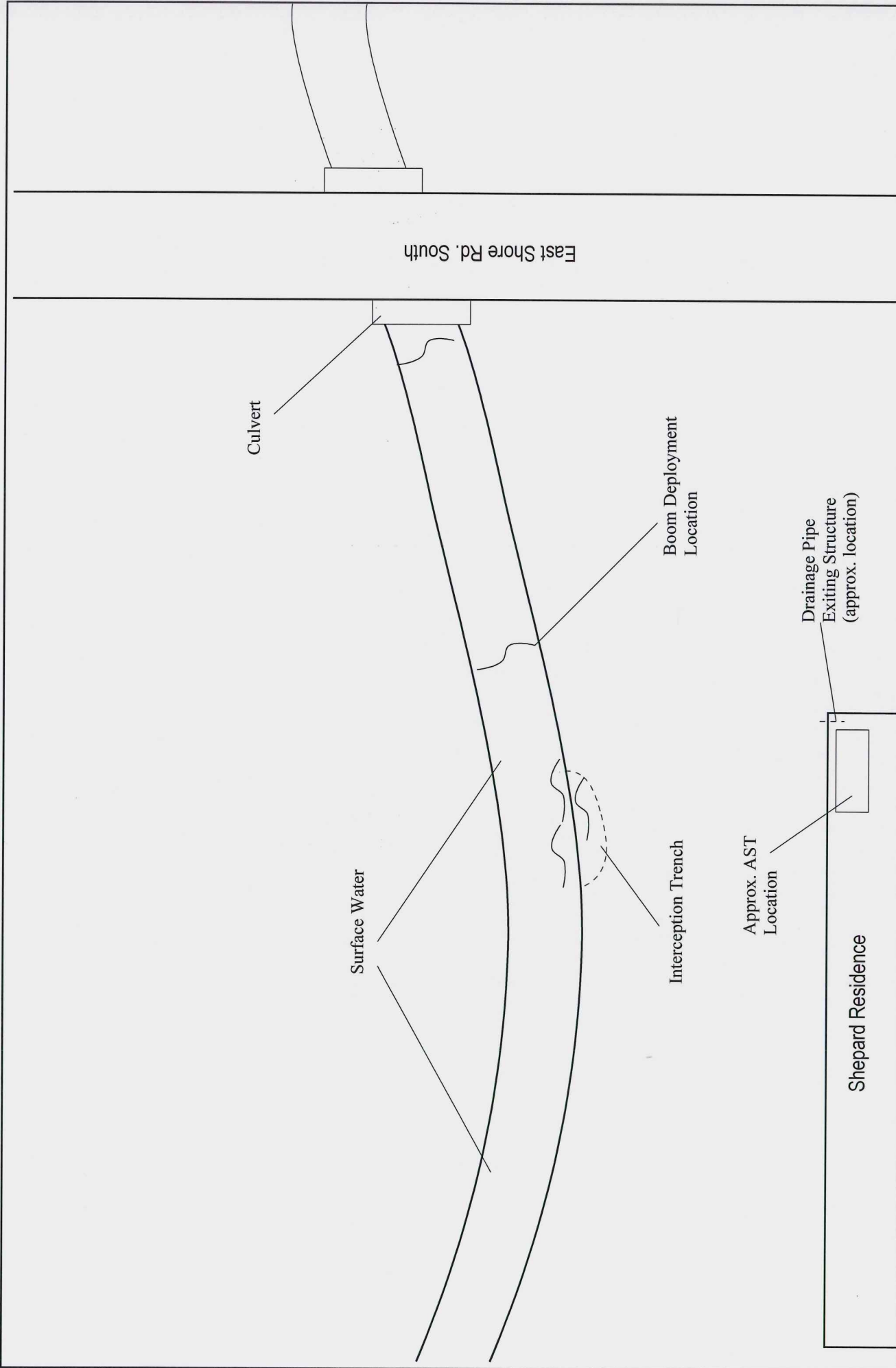
FIGURE 1

General Location Map

TOPO! map printed on 04/12/10 from "Untitled.tpo"



Shpard Property
111 East Shore Road, South
Grand Isle, VT 05458




	Scale Not to Scale	Site Description Shepard Residence 111 East Shore RD. South Grand Isle, VT	Project # V1176	Date March 2010
			Map Title Figure 2	



Photo 1: Evidence of free product leaching to surface water



Photo 2: View of interception trench and absorbent deployment



Photo 3: View of AST and drainage piping



Photo 4: Evidence of free product collection in interception trench



Photo 5: Evidence of limited free product in interception trench on 3/22



Photo 6: Absorbent deployment on 3/22



24-Hour Emergency Phone Number
1-800-843-8265

Please print or type

BILL OF LADING		HHW		1. Document No. B U R 1 2 2 6		2. Page 1 of 1	
3. Generator's Name and Mailing Address BRIAN SHEPARD 111 EAST SHORE ROAD SOUTH GRAND ISLE VT 05458				Site Address 111 EAST SHORE ROAD SOUTH GRAND ISLE VT 05458			
4. Generator's Phone (802) 372-8638							
5. Transporter 1 Company Name ENVIRONMENTAL PROD & SVCS OF VT, INC				6. A. State Transporter's ID VT-70250			
7. Transporter 2 Company Name				B. Transporter 1 Phone (315) 671-1693			
8.				C. State Transporter's ID			
9. Designated Facility Name and Site Address ENVIRONMENTAL PROD & SVCS OF VT, INC. 300 SMITH BLVD. HM ALBANY NY 12202				D. Transporter 2 Phone			
10. E. State Facility's ID				F. Facility's Phone (518) 465-4000			
11. Shipping Name		12. Containers No. Type		13. Total Quantity		14. Unit Wt./Vol.	
X a. FUEL OIL (NO.2) MIXTURE, 3, NA1993, III		7 D M		700		P	
b. NON-RCRA, NON-DOT SOLIDS, N.O.S. (PETROLEUM CONTAMINATED SOIL)		1 D M		250		P	
c.							
d.							
G. Additional Descriptions for Materials Listed Above							
a. shipped as product for recycle c. 1 X55, ERG#128, #A0410074-TS/IO b. OIL CONT. SOIL, HHW d. 1 X55, #A0410073-DT							
15. Special Handling Instructions and Additional Information JOB #: V1176							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this document are not subject to federal manifest requirements. (On Behalf of Brian Shepard)							
Printed/Typed Name Jane Gauthier		Signature Jane Gauthier		Date 4/28/10			
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature Kelly Rose		Date 4/28/10			
Printed/Typed Name		Signature		Date			
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date			
Printed/Typed Name		Signature		Date			
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.							
Printed/Typed Name		Signature		Date			

BILL OF LADING

GENERATOR

TRANSPORTER

FACILITY

EPS OF VT, INC - ALBANY

300 SMITH BOULEVARD

ALBANY, NY 12202

(518) 465-4000**FAX: (518) 465-5722**

Profile #: A0410073-PA/DT

Date 04/22/2010

Approval #: A0410073-DT

Date 04/22/2010

Exp. Date 04/22/2011

Contact Person: AHMAD MIMS**Generator Information:**

EPA ID #:

BRIAN SHEPARD

111 EAST SHORE ROAD SOUTH

GRAND ISLE, VT 05458

Technical Contact: BRIAN SHEPARD

Site Information:

BRIAN SHEPARD

111 EAST SHORE ROAD SOUTH

GRAND ISLE, VT 05458

Phone: (802) 372-8638

Fax: () N/A-

County: GRAND ISLE

Name of Material: PETROLEUM CONTAMINATED SOIL**Physical Characteristics of Material**

Corrosivity

N/A

Flash Point

141.00

200.00 deg F

Physical State

Solid

Ann
04/22/10**Chemical Composition of Material (%)**

FUEL OIL (NO.2)

1.00%

- 6.00%

SOIL

94.00%

- 99.00%

Process Generating MaterialNO.2 FUEL OIL SPILL W/ SUBSEQUENT CLEANUP
ACTIVITIES**Additional Notes**

PENDING FLASH ANALYTICAL

Manifest Information:

11. US DOT Description (Including Shipping Name, Hazard Class, and ID Number)

12. Containers

13. Total Quantity

14. Units

I. Waste No.

NON-RCRA, NON-DOT SOLIDS, N.O.S.
(PETROLEUM CONTAMINATED SOIL)

DM

P

N 816

J. Additional DescriptionsOIL CONT. SOIL, HHW, 55 GAL
APPROVAL#A0410073-PA/DT

15. Special Handling Instructions and Additional Information

As Generator I certify that all of the above information is complete and accurate and the waste materials described herein is not a hazardous waste according to local, state or federal regulations. I further certify that I have the requisite knowledge either by testing, material characteristics or waste generation process that this waste is not a hazardous waste.

Generator (Print)

Authorized Signature

Date

Facility Approval (Print)

Authorized Signature

Date

Environmental Products & Services of VT, Inc. is not permitted for and will not knowingly accept hazardous waste.

EPS OF VT, INC - ALBANY

300 SMITH BOULEVARD

ALBANY, NY 12202

(518) 465-4000

FAX: (518) 465-5722

Contact Person: AHMAD MIMS

Profile #: A0410074-TS/IO

Date 04/22/2010

Approval #: A0410074-TS/IO

Date 04/22/2010

Exp. Date 04/22/2011

Generator Information:

EPA ID #:

BRIAN SHEPARD

111 EAST SHORE ROAD SOUTH

GRAND ISLE, VT 05458

Technical Contact: BRIAN SHEPARD

Site Information:

BRIAN SHEPARD

111 EAST SHORE ROAD SOUTH

GRAND ISLE, VT 05458

Phone: (802) 372-8638

Fax: () N/A-

County: GRAND ISLE

Name of Material: #2 FUEL OIL MIXTURE

Physical Characteristics of Material

Corrosivity

N/A

Flash Point

101.00

140.00 deg F

Physical State

Solid

Chemical Composition of Material (%)

#2 FUEL OIL 5.00% - 10.00%

SOLIDS (ABSORBENTS) 90.00% - 95.00%

Process Generating Material**Additional Notes**NO.2 FUEL OIL RELEASE WITH SUBSEQUENT CLEANUP
ACTIVITIES**Manifest Information:**

11. US DOT Description (Including Shipping Name, Hazard Class, and ID Number)

12. Containers

13. Total Quantity

14. Units

I. Waste No.

FUEL OIL (#2) MIXTURE

3, NA1993, III

DM

P

J. Additional Descriptions

ERG# 128 55 GAL

APPROVAL #A0410074-TS/IO

15. Special Handling Instructions and Additional Information

SHIPPED AS PRODUCT FOR RECYCLE

As Generator I certify that all of the above information is complete and accurate and the waste materials described herein is not a hazardous waste according to local, state or federal regulations. I further certify that I have the requisite knowledge either by testing, material characteristics or waste generation process that this waste is not a hazardous waste.

Generator (Print)

Authorized Signature

Date

Facility Approval (Print)

Authorized Signature

Date

Environmental Products & Services of VT, Inc. is not permitted for and will not knowingly accept hazardous waste.

Scope of Work and Cost Estimate

Brian Shepard Property, 111 East Shore Road South, Grand Isle, VT 05458
Vermont DEC Spill #: 2010 WMD 128

EPSVT hereby presents the following quotation for services to complete site activities at the Shepard property. EPSVT will provide all labor, materials, and equipment necessary to perform the following:

SCOPE OF WORK:

TASK 1: Site Restoration

EPSVT will apply clean backfill to the sump collection area and will transport and properly dispose of one remaining drum of waste generated during product collection activities at the site.

TASK 2: Spill Update Report

EPSVT will generate and submit a Spill Update Report detailing site restoration and final disposal activities.

The estimated costs for implementing this work plan are as follows:

TASK 1 – Site Restoration

Field Technician	4	hours	@ \$	55.00 /hour	\$	220.00
Light Duty Vehicle	60	miles	@ \$	0.50 /mile	\$	30.00
Fill Material	1	yard	@ \$	15.00 /yard	\$	15.00
Digital Camera	5	photos	@ \$	0.50 /photo	\$	<u>2.50</u>

ESTIMATED TOTAL TASK 1 – \$ 267.50

TASK 2 – Spill Update Report Generation

Staff Scientist	1	hours	@ \$	75.00 /hour	\$	75.00
Senior Scientist	0.5	hour	@ \$	106.00 /hour	\$	53.00
Clerical	0.5	hour	@ \$	50.00 /hour	\$	<u>25.00</u>

ESTIMATED TOTAL TASK 2 – \$ 153.00

TOTAL ESTIMATED COST – \$ 420.50

Work will conform to local, state and federal regulations. If this job is quoted, any disposal or other work beyond the scope of work described above, unless agreed in writing, will be billed at the current Time and Material Rates. All customer containerized waste must meet US DOT "UN" packaging standards if it is a hazardous DOT material. If the packaging does not meet these standards, Environmental Products & Services of Vermont, Inc. will over pack the containers and all associated costs incurred will be charged to the customer at standard Time and Material Rates.

This quotation is valid for 30 days from the above date and subject to verification thereafter. Sales tax, if applicable, is a separate item. **Payment Terms** - Net due 30 days from date of invoice. **Environmental Products & Services of Vermont, Inc. does not agree to "pay when get paid" clauses. Any discrepancies with invoices must be addressed in writing within 30 days from date of invoice or invoice will be considered acceptable as is and payment will be expected in full within the agreed payment terms.** Finance charges of one and one-half percent (1.5%) per month will be due on payments past due after sixty days from date of invoice. Payment by MasterCard/Visa, American Express, or Comcheck is available. The Company reserves the right to restrict the use of credit cards on selected products and services.

Customer agrees to indemnify, exonerate, and hold Environmental Products & Services of Vermont, Inc. harmless against loss, damage, or expense, by reasons of suits, claims, demands, judgments, and causes of action for personal injury, death or property damage rising out of or in any way in consequence of the performance of all work undertaken by Environmental Products & Services of Vermont, Inc. except that in no instance shall the customer be held responsible for any liability claim demand or cause of action attributable solely to the gross negligence of Environmental Products & Services of Vermont, Inc.

This quotation is valid for 30 days from the above date and subject to verification thereafter. Applicable taxes are separate items. Payment terms are balance due upon job completion via cash, check or credit card (Visa, MasterCard, American Express only, please). The customer agrees to indemnify, exonerate, and hold Environmental Products & Services of Vermont, Inc. harmless against loss, damage, or expense, by reasons of suits, claims, demands, judgments, and causes of action for personal injury, death, or property damage rising out of or in any way in consequence of the performance of all work undertaken by Environmental Products & Services of Vermont, Inc. except that in no instance shall the customer be held responsible for any liability claim demand or cause of action attributable solely to the negligence of Environmental Products & Services of Vermont, Inc.

If you are in agreement with this proposal, please sign below and return a copy for our files. This proposal is understood and accepted:

By: _____ Date: _____

If you have any questions or require additional information, please do not hesitate to contact me at (802) 862-1212, fax (802) 860-7445, or email at jhowell@epssofvermont.com.

Sincerely,

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.

Jeremiah Howell,
Senior Environmental Scientist

Cc: Mr. Brian Shepard (Property Owner)

